

FORM PTO-1390 (REV. 01-2003)		US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 125080	
INTERNATIONAL APPLICATION NO. PCT/JP2004/001945		INTERNATIONAL FILING DATE February 19, 2004	
PRIORITY DATE CLAIMED February 19, 2003			
TITLE OF INVENTION IMMOBILIZING METHOD, IMMOBILIZATION APPARATUS, AND MICROSTRUCTURE MANUFACTURING METHOD			
APPLICANTS FOR DO/EO/US Akihiko TANIOKA et al.			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.			
2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.			
3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.			
4. <input type="checkbox"/> The US has been elected (Article 31).			
5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))			
a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).			
b. <input type="checkbox"/> has been communicated by the International Bureau.			
c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).			
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))			
a. <input type="checkbox"/> is attached hereto.			
b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).			
c. <input type="checkbox"/> The International Application was filed in English.			
7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))			
a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).			
b. <input type="checkbox"/> have been communicated by the International Bureau.			
c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.			
d. <input type="checkbox"/> have not been made and will not be made.			
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).			
9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).			
10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).			
<b>Items 11 to 20 below concern document(s) or information included:</b>			
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.			
12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.			
13. <input type="checkbox"/> A preliminary amendment.			
14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.			
15. <input type="checkbox"/> A substitute specification.			
16. <input type="checkbox"/> A power of attorney and/or change of address letter.			
17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.			
18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).			
19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).			
20. <input type="checkbox"/> Other items or information:			

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) 10/546,008		INTERNATIONAL APPLICATION NO. PCT/JP2004/001945		ATTORNEY'S DOCKET NUMBER 125080	
21. <input type="checkbox"/> The following fees are submitted:				<b>CALCULATIONS      PTO USE ONLY</b>	
BASIC NATIONAL FEE (37 CFR 1.492(a)): ..... \$ 300.00				\$	
SEARCH FEE (37 CFR 1.492(b)(1)-(3)):				\$	
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage ..... \$ 0.00					
International search fee (37 CFR 1.445(a)(2)) paid to USPTO as ISA ..... \$ 100.00					
International search report provided to USPTO no later than the time at which the search fee is paid ..... \$ 400.00					
All situations not provided for above ..... \$ 500.00					
EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)):				\$	
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage ..... \$ 0.00					
All situations not provided for above ..... \$ 200.00					
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
TOTAL PAGES OF APPLICATION OVER 100 ( - 100)	÷ 50	= †	x 250 =	\$	
†round up to next integer					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
TOTAL CLAIMS	- 20	=	x 50.00 =	\$	
INDEPENDENT CLAIMS	- 3	=	x 200.00 =	\$	
MULTIPLE DEPENDENT CLAIM(S)(if applicable)			+ 360.00 =	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2 .				\$	
<b>SUBTOTAL =</b>				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$	
				Amount to be refunded:	\$
				charged:	\$
a. <input type="checkbox"/> Check No.      in the amount of \$      to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No.      in the amount of \$      to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0461</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. <b>SEND ALL CORRESPONDENCE TO:</b> OLIFF & BERRIDGE, PLC Customer Number: 25944					
Date <u>February 21, 2006</u>			NAME: <u>James A. Oliff</u> REGISTRATION NUMBER: <u>27,075</u>  NAME: <u>Joel S. Armstrong</u> REGISTRATION NUMBER: <u>36,430</u>		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Akihiko TANIOKA et al.

Application No.: 10/546,008

Filed: August 18, 2005

Docket No.: 125080

For: IMMOBILIZING METHOD, IMMOBILIZATION APPARATUS, AND  
MICROSTRUCTURE MANUFACTURING METHOD

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

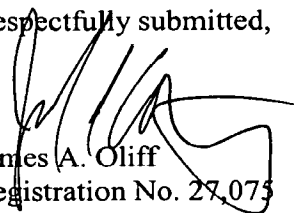
Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 7, 10, 11, 15, 16.
- ☒ 3. One or more reference cited herein was cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information. See References 5-9 & 12-14.
- ☒ 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 5. An English language Abstract of one or more non-English language reference is attached hereto. See References 5 & 7-10.
- ☒ 6. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and is attached, but has not been reviewed for accuracy. See References 5 & 7-10.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /F.P./

- ☒ 7. Please note: Reference 1 corresponds to Reference 5.  
Reference 2 corresponds to Reference 6.  
Reference 3 corresponds to Reference 7.  
Reference 4 corresponds to Reference 9.

Respectfully submitted,



James A. Oliff  
Registration No. 27,075

Joel S. Armstrong  
Registration No. 36,430

JAO:JSA/jrb

Date: February 21, 2006

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p><b>DEPOSIT ACCOUNT USE AUTHORIZATION</b> Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
---

Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 125080		APPLICATION NO. 10/546,008	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANTS Akihiko TANIOKA et al.			
				FILING DATE August 18, 2005			
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	1	6,507,803 B1	01/14/2003	Eickmeyer et al.			
	2	4,748,043 A	05/31/1988	Seaver et al.			
	3	2002/136821 A1	09/26/2002	Yamagata et al.			
	4	6,350,609 B1	02/26/2002	Morozov et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
	5	JP 2001-070846 A	03/21/2001	Japan	X	X	
	6	JP 63-069555 A	03/29/1988	Japan			
	7	JP 2001-281252 A	10/10/2001	Japan	X	X	
	8	JP 09-001004 A	01/07/1997	Japan	X	X	
	9	JP 2002-511792 A	04/16/2002	Japan	X	X	
	10	JP 2001-339593 A	12/07/2001	Japan	X	X	
	11	WO 98/058745 A1	12/30/1998	WIPO			
OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
	12	Akihiko TANIOKA, "Nano Fiber Technology," Journal of the Society of Fiber Science and Technology, Vol. 59, No. 1, pp. 3-7, January 10, 2003.					
	13	Kenji MOROTA et al., "Polyethyleneglycol oyobi Polyacrylic Acid Usumaku no Hyomen Kozo," Kobunshi Ronbunshu, Vol. 59, No. 11, pp. 706-709, November 25, 2002.					
	14	Kenji MOROTA et al., "α-Lactalbumin oyobi Inberutazechippu no Hyomen Kozo," Kobunshi Ronbunshu, Vol. 59, No. 11, pp. 710-712, November 25, 2002.					
	15	Morozov et al., "Electrospray Deposition as a Method to Fabricate Functionally Active Protein Films," Analytical Chemistry, Vol. 71, No. 7, pp. 1415-1420, April 1, 1999.					
	16	Morozov et al., "Electrospray Deposition as a Method for Mass Fabrication of Mono- and Multicomponent Microarrays of Biological and Biologically Active Substances," Analytical Chemistry, Vol. 71, No. 15, pp. 3110-3117, August 1, 1999.					
EXAMINER				/Frederick Parker/ (11/16/2009)		DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: February 21, 2006

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /F.P./